

# Synthesis of the automatic control system with time-delays as in the case of internal combustion engine

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## Abstract

© Published under licence by IOP Publishing Ltd. There was conducted the synthesis of the automatic control system with time-delays for multivariable plants in terms of input terminal and the state based on the system embedding technology. To reproduce the plant state vector the compensatory-observation scheme was used, compensating temporary time-delays in controlling. Illustrated by multivariable model of the internal combustion engine the law of control was realized.

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